

Attachment #1 - Specifications

USDA FOREST SERVICE, R-4

DIXIE NATIONAL FOREST BUILDING DECOMMISSION

SECTION 01025 - MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. The intent of this section is to explain: what is and what is not included in a bid item, the limits or cut-off points where one bid item ends and another begins, the method of measurements and the basis of payment for work items listed in the Bid Item Schedule.
- B. Work:
 - 1. The Contractor is to furnish all labor, materials, equipment, and other incidentals necessary to successfully complete the project or any portion of it, and carrying out all duties and obligations imposed by the contract on the Contractor.
- C. Payment:
 - 1. For each individual item listed here and in the Schedule of Items, payment shall be full compensation for all work related to the particular item in accordance with these specifications, as shown on the drawings, and as staked in the field.
 - 2. Measurement and payment for contract work shall be made only for and under those pay items included in the Schedule of Items. All other work and materials shall be considered incidental or as included in the payment for items shown.

1.2 DETERMINATION OF QUANTITIES

- A. The Contractor shall perform all measurement of quantities of materials incorporated into the work processes that are to be measured under the provisions of the contract.
- B. Quantity Measurements:
 - 1. The Contractor shall make all measurements for computation of quantities for all work items except those specified for payment by Designed Quantity (DQ) or Lump Sum Quantity (LSQ).
 - 2. All Contractor measurements are subject to verification.
 - 3. The Contractor shall submit all field notes, calculation sheets, and other data used to determine quantities.

4. The Contractor shall certify in writing as to the accuracy of the measurements and computations submitted.
- C. The following measurements and calculations are used to determine contract quantities.
1. For individual construction items, longitudinal and lateral measurements for area computations shall be made horizontally or corrected to horizontal measurement unless otherwise specified. Measurements for geotextiles, netting and erosion control blankets shall be along slope lines.
 2. For items that are measured by the linear foot, such as molding and trim, measurements shall be made parallel to the base or foundation upon which the structures are placed.
 3. For standard manufactured items--such as fence, wire, plates, rolled shapes, pipe conduits which are identified by gauge, weight, section dimensions, and so forth--identifications shall be considered the nominal weights or dimensions, unless controlled by tolerances in cited specifications, manufacturer's tolerances shall be accepted.

1.3 UNITS OF MEASUREMENT

- A. Payment shall be by units defined and determined according to U.S. Standard measure and by the following:
- B. Each: One complete unit, which may consist of one or more parts.
- C. Linear Foot: Linear feet measured horizontally.

PART 2 - METHOD OF MEASUREMENT

2.1 GENERAL

- A. One of the following methods of measurement for determining final payment is designated on the Schedule of Items for each pay item:
- B. DESIGNED QUANTITIES (DQ)
 1. These quantities denote the final number or units to be paid for under the terms of the contract. They are based upon the original design data available prior to advertising the project. Original design data include the preliminary survey information, design assumptions, calculations, drawings, and the presentation in the contract. Changes in the number of units shown in the Schedule of Items may be authorized under any of the following conditions:
 - a. As a result of changes in the work authorized by the CO.

- b. As a result of the CO determining that errors exist in the original design, which causes a pay item quantity to change by 15 percent or more.
- c. As a result of the Contractor submitting to the CO a written request showing evidence of errors in the original design that cause a pay item quantity to change by 15 percent or more. The evidence must be verifiable and consist of calculations, drawings, or other data that show how the designed quantity is believed to be in error.

C. ACTUAL QUANTITIES (AQ)

- 1. These estimated quantities are determined from actual measurements of completed work.

D. LUMP SUM QUANTITIES (LSQ)

- 1. These quantities denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job. They shall not be measured.

END OF SECTION 01025
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SECTION 011900 - MOBILIZATION

PART 1 - GENERAL

1.1 SUMMARY

- A. This item is intended to compensate the Contractor for operations including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for payment of premiums, bonds and insurance for the project; and for any other work and operations which must be performed or costs that must be incurred incident to the initiation of meaningful work at the site and for which payment is not otherwise provided for under the contract.
- B. The measurement shall be lump sum for mobilization.
- C. Payment:
 - 1. Bond premiums will be reimbursed after receipt of the evidence of payment.
 - 2. 50% of the lump sum, not to exceed 5% of the original contract amount, will be paid following completion of 5% of the original contract amount not including mobilization and bond premiums.
 - 3. Payment of the remaining portion of the lump sum, up to 10% of the original contract amount, will be paid following completion of 10% of the original contract amount not including mobilization and bond premiums.
 - 4. Any portion of the lump sum in excess of 10% of the original contract amount will be paid after final acceptance.
 - 5. Progress payments for mobilization and preparatory work shall be subject to retainage.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 011900
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SECTION 017320 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

This Section includes demolition and removal of the following buildings.

1. Vermillion Castle Administrative Site (Base Bid #1)
 - a. Guard Station building number 1021
2. Duck Creek Administrative Site (Base Bid #2)
 - a. Barn building number 1026
3. Browse Administrative Site (Option)
 - a. Guard Station building number 1011

1.2 MEASUREMENT AND PAYMENT

- A. Payment shall be a measurement of lump sum for removal of all identified buildings at each identified site.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated and within the maximum disruptive time allotted.

1.4 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Government property, demolished materials shall become Contractor's property and shall be removed from Project site.

1.5 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Standards: Comply with ANSI A10.6 and NFPA 241.
- D. Predemolition Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

- A. The Government assumes no responsibility for condition of areas to be selectively demolished.
 - 1. Conditions existing at time of inspection for bidding purpose will be maintained by the Government as far as practical.
- B. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Contracting Officer (CO). Hazardous materials will be removed by the Government under a separate contract.
- C. Storage or sale of removed items or materials on-site will not be permitted

1.7 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.
 - 1. If possible, retain original Installer or fabricator to patch the exposed Work listed below that is damaged during selective demolition. If it is impossible to engage original Installer or fabricator, engage another recognized, experienced and specialized firm.

PART 2 - PRODUCTS

2.1 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
 - 1. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
 - 2. Use material whose installed performance equals or surpasses that of existing materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- B. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- C. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to CO.

3.2 UTILITY SERVICES

- A. Existing Utilities: There are no known existing utilities on the Browse Admin Site and Vermillion Castle Admin Site. Utilities shown on Duck Creek Admin Site drawings are approximate and must be verified on site by contractor.

3.3 PREPERATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from CO and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing authorities.
 - 2. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 3. Protect existing site improvements, appurtenances, and landscaping to remain.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

- C. Temporary Partitions: Erect and maintain dustproof partitions or temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
- D. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent movement, settlement, or collapse of construction to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

3.4 POLLUTION CONTROLS

- A. Disposal: Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required and as indicated. Use methods required to complete the Work within limitations of governing regulations.
 - 1. Remove existing structure from off of concrete foundation. Structure is to be disposed of off forest service lands in a legal manner.
 - 2. After structure has been removed, demolish concrete in place. Break upper 18" off the top of the concrete foundation and dispose. Fill any pits or holes with materials. Use material found on site if there is not available material on site then a source borrow will be chosen by FS.
- B. Existing Items to Remain: There are no existing items to remain; each building will be disposed of properly off site.

3.6 PATCHING AND REPAIRS

- A. General: Promptly repair damage to adjacent construction caused by selective demolition operations.
- B. Regrade each decommissioned structure site and dispose of all waste material off forest service lands in a legal manner.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.

- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Government property and legally disposes of them.

END OF SECTION 01732
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SECTION 024100 - WASTE MATERIAL DISPOSAL

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the loading, handling, hauling, and placing of excess excavation material, unsuitable excavation material, clearing and grubbing debris, removed concrete debris, and construction debris.

1.2 MEASUREMENT AND PAYMENT

- A. There will be no separate measurement or payment for work in this Section. Waste material disposal is considered incidental to other items of work shown in the Schedule of Items.

PART 2 - PRODUCTS – NOT APPLICABLE

PART 3 - EXECUTION

3.1 WASTE MATERIAL TO BE REMOVED

- A. All demolition materials, garbage, and other refuse generated shall be hauled off forest service lands and disposed of in a legal manner.

3.2 DISPOSAL SITE

- A. All waste material shall be removed from the project site and legally disposed of off Government property in a legal manner.
 - 1. The contractor is responsible for all costs and permits associated with landfill disposal.
 - 2. The Government is not responsible for waste material upon its departure from the project site.

END OF SECTION 024100

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SECTION 321204 – PIT RUN BASE AND SURFACE COURSE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes hauling and placing one or more courses of pit run, aggregate base or surface course material for bedding and backfill.

1.2 MEASUREMENT AND PAYMENT

- A. No separate payment shall be made for aggregate base or surface course. Payment shall be incidental to other work.

PART 2 - PRODUCTS

2.1 AGGREGATES

- A. General: Follow specifications given for pit run aggregate Base, or Surface Courses meeting the gradation ranges specified.
- B. Obtain all borrow material from commercial source.

2.2 AGGREGATE GRADATION

- A. Base borrow material will not exceed 12 inches in diameter. Base will be to 6 inches below the existing grade.
- B. The Surface Course borrow material will not exceed 1 inch in diameter. Surface Course material will be level with the existing grade.

PART 3 - EXECUTION

3.1 GENERAL

- A. Verify that subgrade is dry and in suitable condition, locate areas that are unstable or that require further compaction.

- B. Proceed with aggregate placement only after unsatisfactory conditions have been corrected and subgrade is approved in writing by the Contracting Officer (CO).

3.2 PREPARATION OF SUBGRADE

- A. Borrow material shall be placed and compacted in order to avoid settlement.
- B. Borrow material shall be placed in compacted layers of 12 inch lifts. Unless specified otherwise, borrow shall be compacted to 95 percent of AASHTO T 99.
- C. Suitable material for borrow shall be granular material or fine compatible soil free of excess moisture, muck, frozen lumps, roots, sod, and other material that could decay over time. Remove all rock particles and hard earth clods larger than 12 inches in the longest dimension.

3.3 COMPACTING

- A. Compact each layer of aggregate full width. Compact each layer to a density of at least 95 percent of the maximum density as determined by AASHTO T 99.

3.4 SURFACE AND CONSTRUCTION TOLERANCES

- A. Borrow material shall be placed as shown on the drawings and as staked. Tolerance for thickness of aggregate shall be $\pm 1/2$ -inch and for width shall be + 1-foot and - 0.

3.5 ACCEPTANCE

- A. Aggregate shall be accepted following placement when shown to meet material quality, gradation, compaction requirements, and required depth and width.

END OF SECTION 321204
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